

# Polar Operational Environmental Satellites

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CCR Number:	Mod:	Title:	Tech Lead(s): Responsible:	Issued: Apprvd: Closed:	Status: Class Change:	Memo:
CCR1521		WAIVER FOR TDR K1504, K1505,& K1506 (HIRS H303 FAILURE TO MEET RIPPLE CURRENT SPEC ON 28V MAIN BUS, 10V	RICHARDSON, C	11/24/1997 02/11/2000	A 1	APPROVED-OPEN ACTIONS: 1-MARSHALL ISSUE MOD.  6/15/00: PROVIDED CHANGE PAGES TO CONTRACTS AWAITING CONTRACT MOD.  THIS CCR IS APPROVED PER LMMS MEMO REFERENCE NO. 26241.
CCR1587		DATA DISTRIBUTION ENHANCEMENTS FOR ITT INSTRUMENTS: AVHRR AND HIRS	RICHARDSON, C	12/21/1998 03/03/1999	A 1	APPROVED-OPEN ACTIONS: 1-MARSHALL ISSUE RFP/BILATERAL MOD. PROPOSAL BEING NEGOTIATED.  APPROVED WITH CHANGES. SOW IS CHANGED PER ITT RECOMMENDATION (SEE ATTACHED CHANGE).
CCR1590		REQUEST FOR DEVIATION/WAIVER NO. 106 AVHRR/3 CONTRACT NAS5-30384	PSZCOLKA, S	01/11/1999 01/16/1999	A 1	APPROVED-OPEN ACTIONS: 1-MARSHALL ISSUE MOD.  6/15/00: PROVIDED CHANGE PAGES TO CONTRACTS AWAITING CONTRACT MOD.
CCR1600		ALTERNATE SOLVENT FOR CLEANING ELECTRONIC ASSEMBLIES FOR AVHRR & HIRS INSTRUMENTS (ITT WAIVER 105)	PSZCOLKA, S	02/04/1999 04/11/1999	A 1	APPROVED-OPEN ACTIONS: 1-CMO PREPARE CHANGE PAGES TO THE AVHRR & HIRS PAR, S-480-29.1 WAIVER TABLE. 2-MARSHALL ISSUE MOD.  6/15/00: PROVIDED CHANGE PAGES TO CONTRACTS AWAITING CONTRACT MOD.
CCR1614		ITT WAIVER #109: WIRE SPLICE ON MPS/SWR INTERFACE	PSZCOLKA, S	03/23/1999 03/24/1999	A 1	APPROVED-OPEN ACTIONS: 1-CMO PREPARE CHANGE PAGES. 1-MARSHALL ISSUE MOD.

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CCR1614						6/15/00: PROVIDED CHANGE PAGES TO CONTRACTS AWAITING CONTRACT MOD.	
CCR1618	A	177	ADD METOP ICD AS APPLICABLE DOCUMENT IN AVHRR AND HIRS SPECIFICATION	RICHARDSON, C	05/07/1999 06/30/1999	A 1	APPROVED-OPEN ACTIONS: 1-CMO COMPLETE TECH PUBS ON AVHRR AND HIRS PERF SPEC AND SOW.  APPROVE WITH CHANGES. HETM FOR HIRS IS TO BE ADDED TO THE CCR AND PER ITT NEW SECTION 6.3.1.3 IS ADDED TO BOTH THE HIRS AND AVHRR PERFORMANCE SPECS.
CCR1628		HIRS TIMING	RICHARDSON, C	05/04/1999	P 1	TECH LEAD NEEDS TO RESOLVE ITT/LMSSC ISSUES. TELECON SET FOR 6/29/01.  6/7/00: HALTERMAN TO DISCUSS A TELECON BETWEEN MARVIN CANDIE & GSFC.  5/15/00: ATTEMPTING TO SCHEDULE A TELECON BETWEEN GSFC AND LMSSC.  9/8/99: RICHARDSON TO REWRITE CCR AS A WAIVER/DEVIATION FOR ALL HIRS INSTRUMENTS "NOAA-K THRU N" .	
CCR1629		HIRS CONDUCTED EMISSIONS WAIVER 92A	RICHARDSON, C	05/07/1999 02/12/2000	H 1	ON HOLD PENDING NOAA-N T/V TEST.  APPROVAL WITH CHANGE IS CONTINGENT ON POSITIVE NOAA-N THERMAL VACUUM TEST RESULTS FROM LMMS.  SUPERSEDES CCR 1492-ONCE PLACED ON HOLD CCR 1492 WILL BE WITHDRAWN.	
CCR1639		HIRS CENTER FREQUENCY WAIVER 112	RICHARDSON, C	06/01/1999 06/17/1999	A 1	APPROVED-OPEN ACTIONS: 1-CMO PREPARE CHANGES PAGES TO HIRS PERF. SPEC WAIVER TABLE. 2-MARSHALL ISSUE MOD.	

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CCR1639						6/15/00: PROVIDED CHANGE PAGES TO CONTRACTS AWAITING CONTRACT MOD.
CCR1647	172	ITT WAIVER #108: ALTERNATIVE SOLVENT FOR CLEANING OF ELECTRONIC ASSEMBLIES (ENSOLV CWA)	RICHARDSON, C	06/25/1999 08/11/1999	A 1	APPROVED-OPEN ACTIONS: 1-CMO MODIFY AVHRR/HIRS PAR, S-480-29.1 DEVEIATION AND WAIVER TABLE.
CCR1681		GFE AVHRR THERMAL VACUUM CHAMBER REPAIR AND CLEANING	RICHARDSON, C PSZCOLKA, S	10/13/1999 04/19/2000	A 1	APPROVED-OPEN ACTIONS: 1-MARSHALL ISSUE DIRECTION/BILATERAL MOD.  APPROVED WITH CHANGES. CCR BLOCK 3 IS CHANGED TO "CO DIRECTION."
CCR1740	A 86	AMSU-A POST PRODUCTION SUPPORT (REVISED CCR FOR ONE YEAR OF SUPPORT)	KRIMCHANSKY, S	12/08/2000 12/12/2000	A 1	APPROVED-OPEN ACTION: 1-CMO MODIFY THE AMSU A1 SOW TO INCORPORATE CHANGES.
CCR1743	A	METOP PROGRAM STRUCTURAL MODIFICATION RFP	RICHARDSON, C	06/29/2000 06/29/2000	A 1	APPROVED-OPEN: 1-MARSHALL ISSUE PR/RFP. PROPOSAL SUBMITTED TO NASA 8/28/00.  C. RICHARDSON, SECT. 6.3 OF THIS CCR WILL BE OMITTED (SINCE IT WAS DELETED IN EXCEPTIONS OF ICD GSFC-S-480-131/132) IF THIS EFFORT REACHES NEGOTIATIONS AND IS PUT ON CONTRACT. A CM MEMO TO FILE WILL BE REQUIRED.  APPROVED.
CCR1745		WAIVER OF CERTAIN REQUIREMENTS OF NHB 5300.4(3G) AND (3H) CABLE, CRIMP, AND HARNESSING (CCH)	PSZCOLKA, S	06/20/2000 06/29/2000	A 1	APPROVED-OPEN ACTIONS: 1-CMO MODIFY THE AVHRR PAR, S-480-29 TO INCORPORATE APPROVED CHANGES. 2-MARSHALL ISSUE BILATERAL MOD.
CCR1760		BRUSHLESS D.C. MOTOR FOR A306	PSZCOLKA, S	08/17/2000 08/25/2000	A 1	APPROVE-OPEN ACTIONS: 1-MARSHALL ISSUE MOD.  ITT SUBMITTED PROPOSAL TO NASA ON 11/3/00. TECH EVAL

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CCR1760						COMPLETE IN SIGN-OFF.
CCR1762	184	METOP EM INTEGRATION AND TEST SUPPORT	RICHARDSON, C	08/23/2000 10/10/2000	A 1	APPROVED-OPEN ACTIONS: 1-CMO UPDATE ITT SOW TO INCORPORATE CHANGE.  APPROVE WITH CHANGES. PER ITT'S REQUEST THE REQUIREMENT TO EVALUATE DURING TESTING IN 2ND PARAGRAPH IS DELETED FROM CCR; THEREFORE, REDUCING THE COST IMPACT.
CCR1767	173	DOCUMENTATION UPDATE FOR HIRS CLOCKS MODIFICATION	RICHARDSON, C	08/28/2000 09/29/2000	A 1	APPROVED-OPEN ACTIONS: 1-CMO TO OBTAIN AND VERIFY CHANGES TO THE HIRS METOP ICD. 2-CMO TO COMPLETE TECH PUBS ON THE HIRS METOP EXCEPTIONS ICD, GSFC S-480-131.  APPROVED WITH CHANGES. CCR BLOCK 3 DEFINES CONTRACT ACTION, BILATERAL MOD WILL BE ISSUED FOR ITT CONTRACT AND LETTER WILL BE SENT TO ESA WITH ATTACHED CCR.
CCR1768		ADD HIRS SPACE TARGET TO REDLINE HIRS METOP ICD	RICHARDSON, C	08/28/2000 10/19/2000	A 1	APPROVED-OPEN ACTIONS: 1-MARSHALL ISSUE BILATERAL MOD TO NAS5-30384. 2-CMO MODIFY HIRS EXCEPTIONS ICD, S-480-131.
CCR1771		ADDITIONAL BRUSHLESS D.C. MOTORS/ INSTALL IN A303	PSZCOLKA, S	10/03/2000 11/20/2000	A 1	APPROVED-OPEN ACTIONS: 1-MARSHALL ISSUE MOD. 2-CMO MODIFY AVHRR/HIRS SOW. 3-CMO MODIFY AVHRR PERFORMANCE SPEC, S-480-81.  PROPOSAL SUBMITTED TO NASA ON 2/23/01. TECH EVAL; QUESTIONS ANSWERED AND SENT TO RICHARDSON 3/01.  APPROVED WITH CHANGE. CCR SECTION 2 IS CHANGED TO "...ONE NEW SET OF CONTROL ELECTRONIC BOARDS....", CCR SECTION 3 IS CHANGED TO "RFP", AND GSFC-S-480-81 PARAGRAPHS 5.12 AND 8.1.3 ARE CHANGED TO ADD "AND A

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CCR1771						FLIGHT SPARE" (SEE ATTACHED CHG. PG).  AWAITING PR/RFP/MOD.
CCR1774	A	GROUND SOFTWARE/HARDWARE UPGRADES	PSZCOLKA, S	12/04/2000 04/19/2001	A 1	APPROVED-OPEN ACTIONS: 1. CMO COMPLETE TECH PUBS ON S-480-96 HIRS INTERNAL ICD. 2. MARSHALL ISSUE RFP AND MOD.  PROPOSAL IS IN NEGOTIATIONS BETWEEN ITT AND NASA. ITT TO SUBMIT PROPOSAL TO NASA ON 6/3/01.
CCR1775		METOP PFM, FM2, FM3 SUPPORT	RICHARDSON, C	10/16/2000 11/20/2000	A 1	APPROVE-OPEN ACTIONS: 1-MARSHALL ISSUE RFP AND MOD. 2-CMO MODIFY AVHRR/HIRS SOW.  PROPOSAL SENT FROM ITT TO NASA ON 4/3/01.  NOTE: APPROVED WITH CHANGE TO CCR section 1, item 3 and SOW paragraphs 8.1.2 and 9.1.3 and add section 10.2 are changed per ITT comments.
CCR1786	A	AVHRR/HIRS DUST COVER REVISION	CARDONE, J	01/09/2001 04/03/2001	A 1	APPROVED-OPEN ACTIONS: 1-CMO COMPLETE TECH PUBS ON HIRS SPEC, S-480-82 AND AVHRR SPEC S-480-81. 2-CMO OBTAIN AND VERIFY UPDATES TO THE AVHRR UIIS. 3-MARSHALL ISSUE RFP AND BILATERAL MOD. 4-STEWART ISSUE MOD.
CCR1795	B	INSTRUMENT CORRECTION FACTOR SUBMITTAL FORM (S-480-135 REV. A) IMPLEMENTATION (ITT - AVHRR & HIRS)	CARDONE, J	04/26/2001 05/30/2001	A 1	APPROVED OPEN ACTIONS: 1-STEWAR ISSUE MOD TO NAS5-30350. 2-HAMMOND ISSUE RFP AND MOD TO NAS5-30384. 2-CMO OBTAIN AND VERIFY UPDATES TO THE AVHRR AND HIRS UIIS.
CCR1802		METOP TEST CONFIGURATION FOR METOP DESIGNATED AVHRR AND HIRS	RICHARDSON, C	02/01/2001 04/10/2001	A 1	APPROVED-OPEN ACTIONS: 1-MARSHALL ISSUE RFP AND BILATERAL MOD TO NAS5-30384. 2.-CMO MODIFY ITT SOW TO INCORPORATE APPROVED

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CCR1802						CHANGES.  5/16/01: PROPOSAL IN PROCESS.
CCR1812		HIRS FILTER WHEEL REPLACEMENT	RICHARDSON, C	04/05/2001 05/18/2001	A 1	APPROVED-OPEN ACTIONS: 1-MARSHALL ISSUE MOD. 2-CMO MODIFY THE ITT SOW TO INCORPORATE APPROVED CHANGES.
CCR1818		H306 CE WAIVER 130A	RICHARDSON, C	04/30/2001	H 1	ON HOLD PENDING VERIFICATION OF PERFORMANCE AS SPACECRAFT LEVEL.
CCR1821		METOP TRANSIT CASES FOR HIRS AND AVHRR	RICHARDSON, C	05/09/2001 06/04/2001	A 1	APPROVED - OPEN ACTIONS: 1-MARSHALL ISSUE EMERGENCY CHANGE ORDER 2-CMO TECH PUBS TO HIRS SPEC S-480-82 AND AVHRR SPEC S-480-81.
CCR1822		ITT CONTRACT COST INCREASE FOR SOs	RICHARDSON, C.	05/09/2001 05/30/2001	A 1	APPROVED-OPEN ACTIONS: 1-MARSHALL ISSUE MOD.
CCR1826		HIRS S/C THERMAL VACUUM RADIANT COOLER TARGET FIXTURE	CARDONE, J	05/17/2001	P 1	AS OF 6/4/01 - CYMERMAN AT LM WORKING THIS.  COMMENTS FORWARDED TO TECH LEAD. CCR DISPOSITION IS PENDING CONCURRENCE FROM LOCKHEED.
CCR2392		CHANGES TO REFLECT INSTRUMENT VENDOR BENCH TEST RESPONSIBILITY	CARDONE, J	04/28/2000	H 1	5/17/01: ON HOLD PENDING RESOLUTION OF INTEGRATED INSTRUMENT STORAGE REQUIREMENTS.  CARDONE TOOK THE ACTION TO REWORK. NEED TO IDENTIFY WHICH INSTRUMENTORS APPROVED, WHAT THE OPEN ISSUE ARE AND IMPACT TO LMSSC. RECOMMENDED APPROACH AT THE IPR WAS TO WRITE SEPERATE CCRS TO IMPLEMENT THIS FOR EACH INSTRUMENT.
CCR2396		ADVANCED VERY HIGH RESOLUTION RADIOMETER (AVHRR-3) UNIQUE INSTRUMENT INTERFACE SPECIFICATION (UIIS) UPDATES	PSZCOLKA, S	04/12/2000	P 1	AS OF 6/4/01 - CYMERMAN AT LM TO WORK THIS.  ON HOLD PENDING LMSSC COMMENTS.

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CCR2396						S. PSZCOLKA FORWARDED ITT COMMENTS TO CYMERMAN/LMSSC FOR RESOLUTION ON 12/00. AWAITING LMSSC RESPONSE.
CRM145	A	PIN ALLOCATION CLOCK CONNECTOR P01 (MO-ICP-ES-NO-0237)	RICHARDSON, C	09/12/2000 11/14/2000	A 1	APPROVED-OPEN ACTIONS: 1-MARSHALL ISSUE BILATERAL MOD. 2-CMO COMPLETE TECH PUBS ON THE HIRS EXCEPTIONS ICD GSFC S-480-131.  5/23/01 - CHANGES WERE INCORPORATED INTO METOP HIRS ICD, ISSUE 4.
CRM148		EMC/EMI TEST REQUIREMENTS	RICHARDSON, C PSZCOLKA, S	01/24/2000 05/30/2001	A 1	APPROVED-OPEN ACTIONS: 1-CMO OBTAIN AND VERIFY UPDATES TO METOP AVHRR ICD. 2-RICHARDSON WRITE NEW CRM TO INCORPORATE ITT COMMENTS INTO THE AVHRR EXCEPTIONS ICD. CRM148 MAY BE CLOSED AND NOT HELD OPEN PENDING COMPLETION OF THIS ACTION. 3-PARKER ISSUE EUMETSAT LETTER FOR MIGNOGNO SIGNATURE.  Note - ITT APPROVED CRM148 BUT WANTS A NEW CCR WRITTEN TO ADDRESS ITT COMMENTS. THIS CRM AFFECTS ONLY METOP AVHRR ICD, NOT THE AVHRR EXCEPTIONS DOC.  CCB DIRECTIVE TO MCCAIN FOR APPROVAL 5/22/01.  ACTIONS: 1. CMO OBTAIN AND VERIFY METOP AVHRR ICD. 2. C. RICHARDSON TO WRITE NEW CRM TO INCORPORATE ADDITIONAL CHANGES TO EMC/EMI TEST REQUIREMENTS INTO THE AVHRR EXCEPTIONS DOCUMENT AS REQUESTED BY ITT. 3. ESA LETTER 4. EUMETSAT LETTER

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CRM162	A	CLOCK SIGNAL INTERFACE (MO-ICP-ESA-NO-0284)	RICHARDSON, C	01/10/2001 02/15/2001	A 1	APAPPROVED-OPEN ACTIONS: 1-CMO COMPLETE TECH PUBS ON THE HIRS EXCEPTIONS ICD. 2-MARSHALL ISSUE MOD.  5/24/01 - CHANGES INCORPORATED IN METOP HIRS ICD, ISSUE 4.
CRM176		VERIFICATION OF DOOR DEPLOY COMMAND: ICP 305	RICHARDSON, C	11/17/2000 04/19/2001	A 1	APPROVED-OPENS ACTIONS: 1-MARSHALL ISSUE BILATERAL MOD. 2-NOAA ISSUE EUMETSAT LETTER. 3-CMO COMPLETE TECHNICAL PUBLICATIONS FOR HIRS EXCEPTIONS ICD, S-480-131.  4/24/01-SSST FRANSEN EMAIL-ALL PARTIES APPROVED, IMPLEMENTED IN ICD ISSUE 4/01. 5/24/01 - VERIFIED CHANGES INCORPORATED IN METOP HIRS ICD, ISSUE 4.
CRM179	A	METOP ICD UPDATES FOR EMI FILTERS	RICHARDSON, C	04/02/2001 04/16/2001	A 1	APPROVED-OPEN ACTIONS: 1-CMO OBTAIN AND VERIFY UPDATES TO THE AVHRR AND HIRS METOP ICDS. 2-CMO COMPLETE TECH PUBS ON THE AVHRR AND HIRS ICD EXCEPTIONS DOCS. 3-MARSHALL ISSUE RFP AND BILATERAL MOD.  5/23/01 - STILL UNRESOLVED ISSUES, ESA "WAITING INDUSTRY APPROVAL", CHANGES NOT INCORPORATED IN METOP HIRS ICD ISSUE 4.
CRM186		METOP DIGITAL B DEFINITION (MO-ICP-ESA-NO-0257)	RICHARDSON, C	01/08/2001	P 1	COMMENTS FORWARDED TO TECH LEAD ON 3/8/01. NEED TO RESOLVE ITT COMMENTS.
CRM187		DUST COVER USAGE FOR METOP EMI TESTING	RICHARDSON, C	01/08/2001 04/20/2001	A	APPROVED-OPEN ACTIONS:  1. LIETZKE ISSUE PR TO NAS5-30384. 2. MARSHALL ISSUE MOD TO NAS5-30384. 3. CMO OBTAIN AND VERIFY UPDATES TO THE HIRS AND



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CRM187						AVHRR METOP ICDS.  4/24/01-SSST EMAIL FROM FRANSEN RELATED TO DCR0324 REV 1 AND DCR0325 REV 1, ALL PARTIES APPROVED, WAITING FOR ICD UPDATE . 5/24/01 - CHANGES NOT YET INCORPORATED AS OF METOP AVHRR ICD, ISSUE 4.
CRM188		METOP HIRS POWER UPDATES	RICHARDSON, C	01/08/2001 06/04/2001	A 1	6/8/01 - ESA DISAPPROVED CRM, THEREFORE WILL NOT UPDATE ICD BUT IS WAITING FOR RESULTS FROM FM INTEGRATION.  NASA APPROVED - OPEN ACTIONS: 1. CMO OBTAIN/VERIFY UPDATED METOP HIRS ICD 2. J. PARKER PROVIDE NOAA APPROVAL LETTER 3. S. MARSHALL ISSUE MOD TO HIRS ITT CONTRACT
CRM190		AVHRR NIU FAULT VOLTAGE PROTECTION (MO-ICP-ESA-NO-0301)	RICHARDSON, C	01/19/2001 04/03/2001	A 1	APPROVED-OPEN ACTIONS: 1-PARKER/NOAA ISSUE EUMETSAT APPROVAL LETTER. 2-LIETZKE ISSUE PR. 3-MARSHALL ISSUE MOD. 4-CMO COMPLETE TECH PBUS FOR AVHRR ICD EXCEPTIONS DOCUMENTS.
CRM198		HIRS METOP RISE TIME OF 1.248 MHz CLOCK SIGNAL (MO-ICP-ESA-NO-253)	CARDONE, J	02/13/2001 04/04/2001	A 1	APPROVE-OPEN ACTIONS: 1-CMO OBTAIN AND VERIFY UPDATES TO THE HIRS METOP ICD.  5/24/01 - CHANGES NOT YET MADE AS OF METOP HIRS ICD ISSUE 4.
CRM201		HIRS METOP INTRODUCTION OF FACE MASKS DURING AIT AND DELETION OF PTU FROM DELIVERABLES LIST (MO-ICP-ESA-NO-333)	LIPTAK, J.	03/12/2001 04/10/2001	A 1	APPROVED-OPEN ACTIONS: 1-PARKER ISSUE EUMETSAT APPROVAL LETTER. 2-CMO PERFORM TECH PUBS FOR HIRS EXCEPTIONS METOP ICD. 3-CMO OBTAIN AND VERIFY UPDATES TO THE HIRS METOP ICD.  4/24/01-EMAIL FROM FRANSEN-APPROVED BY NASA, STILL

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CRM201						OPEN AT METOP INDUSTRY.
CRM202		AVHRR METOP INTRODUCTION OF FACE MASKS DURING AIT AND DELETION OF PTU FROM DELIVERABLES LIST (MO-ICP-ESA-NO-332)	CARDONE, J	03/12/2001 04/10/2001	A 1	APPROVED-OPEN ACTIONS: 1.NOAA ISSUE EUMETSAT APPROVAL LETTER. 2-CMO OBTAIN AND VERIFY UPDATES TO THE AVHRR METOP ICD.  4/24/01-EMAIL FROM FRANSEN-STILL OPEN AT METOP INDUSTRY.
CRM203		BASEPLATE PAINTING FOR HIRS AND AVHRR	RICHARDSON, C	04/02/2001	P 1	COMMENTS FORWARDED TO TECH LEAD FROM ITT ON 4/30/01.
CRM204		HIRS ICP 302 ANALOG HK TLM LOAD CIRCUIT FAULT VOLTAGE PROTECTION	RICHARDSON, C	04/05/2001 05/01/2001	A 1	APPROVED-OPEN ACTIONS: 1-MARSHALL ISSUE MOD.